

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 59061908
PUBLICATION DATE : 09-04-84

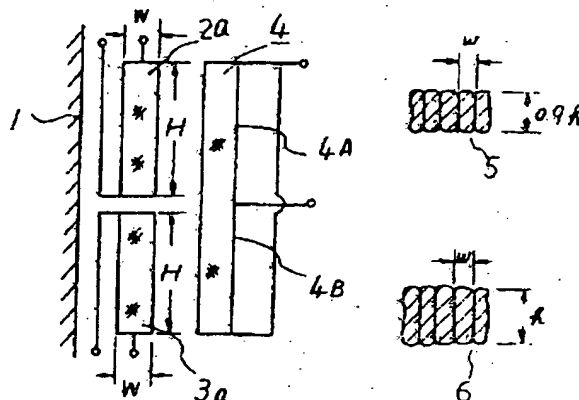
APPLICATION DATE : 30-09-82
APPLICATION NUMBER : 57172873

APPLICANT : HITACHI LTD;

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INT.CL. : H01F 27/28 H01F 27/12

TITLE : SPLIT WINDING TRANSFORMER



ABSTRACT : PURPOSE: To increase wire space factor and current density of a high voltage split winding and a low voltage split winding by a method wherein those two windings are so formed as to have the same height and width and the low voltage split winding is positioned downward.

CONSTITUTION: While the height and the width of a component wire 6 of a low voltage split winding 3a is (h) and (w) respectively, the height of a component wire 5 of a high voltage split winding 2a is smaller, for instance, 0.9h, and its width is the same, or (w). With this constitution, because number of turns of the high voltage split winding 2a is more than that of the low voltage split winding 3a, the two windings 2a, 3a are so formed as to have nearly the same height H and width W so that the wire space factor is increased. The low voltage split winding 3a which has larger height (h) of the component wire 6 and has larger heat generation is positioned downward so that the temperature rise is suppressed and the current density is increased and the size of the transformer can be reduced.

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